

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-12

Report Period: 6/17 – 6/23, 2023

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SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2022
A. River Flow	154.7	172.1	165.9	184.9	425.2
B. Powerhouse 1	99.6	111.2	106.9	66.1	233.8
C. Spill (kcfs)	53.9	60.0	58.0	117.6	190.3
% of River Flow	34.8	35.1	34.9	63.4	44.7
D. Water Temp *	64.5	65.5	65.0	65.0	57.6
E. % Saturation *	102.1	104.4	103.3	109.6	117.2

* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

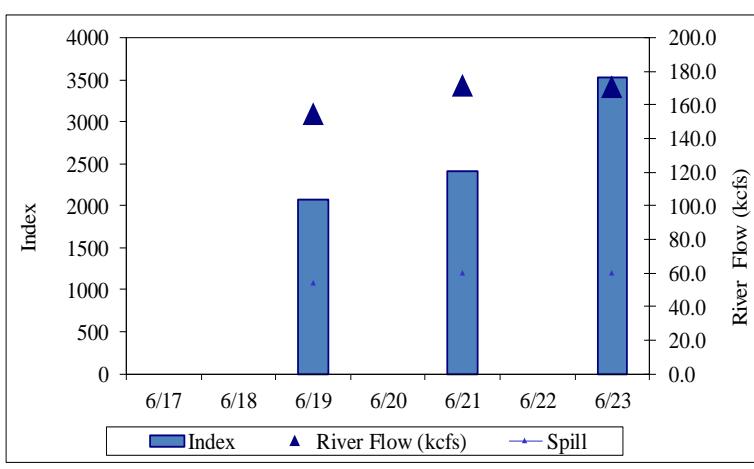
% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	1.8%	1.4%
SUBYEARLING CHINOOK	96.1%	95.4%
CHINOOK FRY	0.0%	0.4%
UNCLIPPED STEELHEAD	0.0%	0.4%
CLIPPED STEELHEAD	0.3%	0.0%
COHO	1.5%	2.1%
COHO FRY	0.0%	0.0%
SOCKEYE	0.3%	0.4%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
6/17																	
6/18																	
6/19	8.1%	3	0.0	0.0	12	18	101	1.0	0.0	1,260	1,942	3	0.0	0.0	44	68	
6/20																	
6/21	6.9%	0	0.0	0.0	0	0	109	0.9	0.0	1,541	2,372	1	0.0	0.0	20	31	
6/22																	
6/23	5.0%	3	0.0	0.0	60	93	110	0.0	0.0	2,200	3,400	1	0.0	0.0	20	31	
Weekly		6	0.0	0.0	72	111	320	0.6	0.0	5,001	7,714	5	0.0	0.0	84	130	
Season to date		3,884	2.2	0.2	84,119	213,921	2,042	1.0	0.0	34,159	112,689	280	5.0	0.0	8,044	21,884	

UNCLIPPED						STEELHEAD						CLIPPED						SOCKEYE					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index		
6/17																							
6/18																							
6/19	8.1%	0	0.0	0.0	0	0	1	0.0	0.0	4	6	1	0.0	0.0	20	31							
6/20																							
6/21	6.9%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
6/22																							
6/23	5.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
Weekly		0	0.0	0.0	0	0	1	0.0	0.0	4	6	1	0.0	0.0	20	31							
Season to date		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	135	5.9	0.0	4,645	11,479							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/17						
6/18						
6/19	8.1%	109	0.9	0.0	1,340	2,065
6/20						
6/21	6.9%	110	0.9	0.0	1,561	2,403
6/22						
6/23	5.0%	114	0.0	0.0	2,280	3,524
Weekly		333	0.6	0.0	5,181	7,992
Season to date		7,643	2.3	0.1	179,954	483,819

Notes: Condition percentages are calculated from sample numbers.
Subyearling chinook and coho include fry.



Pacific Lamprey				Western Brook					
Macrophthalmia			Ammocoetes			Ammocoetes			
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
6/17									
6/18									
6/19	2	0.0	24	0	0.0	0	0	0	0
6/20									
6/21	1	0.0	50	0	0.0	0	0	0	0
6/22									
6/23	0	0.0	0	0	0.0	0	0	0	0
Weekly	3	0.0	74	0	0.0	0	0	0	0
Season to date	253	0.0	3,247	107	0.0	575	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

	Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye								
	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week							
SAMPLE #	6	8	320	538	0	2	1	0	4	12	1	2							
DESCALING	3-19%	33.3%		6.6%	2.4%	50.0%		8.3%											
	>20%			0.6%															
	Pred. Desc.	25.0%		0.2%															
INJURY	BODY	12.5%		1.6%	0.6%			8.3%											
	EYE			0.3%	0.2%														
	HEAD			1.9%	0.2%														
	OPERC.																		
	FIN																		
OTHER CONDITIONS	POPEYE							25.0%		8.3%									
	PINK FIN	16.7%		5.0%															
	Fin Discolor.																		
DISEASE	FIN HEM.																		
	Columnaris			0.3%	0.2%	50.0%													
	FUNGUS			0.3%															
	BKD			2.5%															
	PARASITES			0.9%															
PREDATION	DEFORMITY	25.0%		0.6%	0.6%	50.0%				8.3%									
	EYE HEM.			1.3%	0.6%														
	BIRD			0.6%	0.2%														
	FISH																		
end dates		6/23	6/16																

SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	1	0	0	0	0	0	0
Season to Date	0	14	6	0	2	1	0	7

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	0	0	2	0	0	68

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	10	4	2	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	1	0	0	1
Season to Date	0	0	0	21	3	184	0	2

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was scheduled to sample Monday through Friday until 15 June and will now sample three times a week (Mon., Wed., Fri.) until the Columbia River water temperature averages 70 degrees F. Samples will be taken from the Juvenile Bypass System between 0700 and 1300 hrs. and the Condition Exams will target approximately 100 of the predominant species of out-migrant, which is currently Subyearling Fall Chinook which were 96.1% of the sample this week. Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars very was low for the week which continued to coincide with lower river flows than last week. Debris consisted of sticks, tumbleweeds, pieces of terrestrial vegetation, and plastic.

SECTION 5. Research

A genetic fin clip sample was taken from three Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 95 mm fork length, showing a growth deformity from the dorsal fin to the caudal peduncle, similar to one sampled at the John Day Dam Smolt Facility on June 21, 2023.



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 95 mm fork length, showing a body injury and fin hemorrhaging, similar to one sampled at the John Day Dam Smolt Facility on June 23, 2023.